

STEARIC ACID**0568**

November 1997

CAS No: 57-11-4
RTECS No: WI2800000Octadecanoic acid
1-Heptadecanecarboxylic acid
Cetylacetic acid
 $\text{CH}_3(\text{CH}_2)_{16}\text{COOH} / \text{C}_{18}\text{H}_{36}\text{O}_2$
Molecular mass: 284.5

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible.	NO open flames.	Powder, water spray, foam, carbon dioxide.
EXPLOSION			
EXPOSURE		PREVENT DISPERSION OF DUST!	
Inhalation		Local exhaust.	Fresh air, rest.
Skin		Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Eyes		Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion		Do not eat, drink, or smoke during work.	Rinse mouth.
SPILLAGE DISPOSAL		PACKAGING & LABELLING	
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting.			
EMERGENCY RESPONSE		SAFE STORAGE	
NFPA Code: H1; F1; R0		Well closed.	

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Programme on
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IMPORTANT DATA**Physical State; Appearance**

WHITE CRYSTALS OR POWDER, WITH CHARACTERISTIC ODOUR.

Physical dangers

Dust explosion possible if in powder or granular form, mixed with air.

Occupational exposure limitsTLV: (as stearates) 10 mg/m³; A4 (not classifiable as a human carcinogen); (ACGIH 2005).

MAK: IIb (not established but data is available) (DFG 2006).

Routes of exposure

The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

Inhalation risk

Evaporation at 20/C is negligible; a nuisance-causing concentration of airborne particles can, however, be reached quickly by dispersing aerosols.

PHYSICAL PROPERTIESBoiling point (decomposes): 376/C
Melting point: 69-72/C
Relative density (water = 1): 0.94-0.83
Solubility in water: noneVapour pressure, Pa at 174/C: 133
Flash point: 196/C
Auto-ignition temperature: 395/C**ENVIRONMENTAL DATA****NOTES**Health effects of exposure to the substance have not been investigated.
Card has been partially updated in August 2007: see Occupational Exposure Limits.**ADDITIONAL INFORMATION****LEGAL NOTICE**

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